SEQUENCE LISTING

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Academic Hospital at the University of Amsterdam

<120> LPL Variant Therapeutics

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<151> 1999-06-24

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<170> PatentIn Ver. 2.0

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<213> Homo sapiens

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Val Ala Glu Ser Val Ala Thr Cys His Phe Asn His Ser Ser Lys Thr
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Phe Met Val Ile His Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp
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Val Pro Lys Leu Val Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn
65                  70                  75                  80

Val Ile Val Val Asp Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val
                85                  90                  95

Ser Ala Gly Tyr Thr Lys Leu Val Gly Gln Asp Val Ala Arg Phe Ile
            100                 105                 110

Asn Trp Met Glu Glu Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu
            115                 120                 125

Leu Gly Tyr Ser Leu Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu
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Thr Asn Lys Lys Val Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro
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Asn Phe Glu Tyr Ala Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala
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Asp Phe Val Asp Val Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg
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Ser Ile Gly Ile Gln Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn
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Gly Gly Thr Phe Gln Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val
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Ile Ala Glu Arg Gly Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser
225             230             235             240

His Glu Arg Ser Ile His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu
            245             250             255

Asn Pro Ser Lys Ala Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys
            260             265             270

Gly Leu Cys Leu Ser Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr
            275             280             285

Glu Ile Asn Lys Val Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys
        290             295             300

Thr Arg Ser Gln Met Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile
305             310             315             320

His Phe Ser Gly Thr Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu
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Ile Ser Leu Tyr Gly Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr
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Leu Pro Glu Val Ser Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr
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Glu Val Asp Ile Gly Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser
        370             375             380

Asp Ser Tyr Phe Ser Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala
385             390             395             400

Ile Gln Lys Ile Arg Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile
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Phe Cys Ser Arg Glu Lys Val Ser His Leu Gln Lys Gly Lys Ala Pro
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<213> Homo sapiens

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Asp Phe Ile Asp Ile Glu Ser Lys Phe Ala Leu Arg Thr Pro Glu Asp
        35   40   45

Thr Ala Glu Asp Thr Cys His Leu Ile Pro Gly Val Ala Glu Ser Val
    50   55   60

Ala Thr Cys His Phe Asn His Ser Ser Lys Thr Phe Met Val Ile His
65   70   75   80

Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp Val Pro Lys Leu Val
            85   90   95

Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn Val Ile Val Val Asp
            100   105   110

Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val Ser Ala Gly Tyr Thr
        115   120   125

Lys Leu Val Gly Gln Asp Val Ala Arg Phe Ile Asn Trp Met Glu Glu
    130   135   140

Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu Leu Gly Tyr Ser Leu
145   150   155   160

Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu Thr Asn Lys Lys Val
            165   170   175

Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro Asn Phe Glu Tyr Ala
        180   185   190

Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala Asp Phe Val Asp Val
        195   200   205

Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg Ser Ile Gly Ile Gln
    210   215   220

Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn Gly Gly Thr Phe Gln
225   230   235   240

Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val Ile Ala Glu Arg Gly
            245   250   255

Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser His Glu Arg Ser Ile
            260   265   270

His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu Asn Pro Ser Lys Ala
        275   280   285

Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys Gly Leu Cys Leu Ser
    290   295   300

Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr Glu Ile Asn Lys Val
305   310   315   320

Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys Thr Arg Ser Gln Met
            325   330   335

Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile His Phe Ser Gly Thr
            340   345   350

Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu Ile Ser Leu Tyr Gly
            355   360   365

Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr Leu Pro Glu Val Ser
    370   375   380

Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr Glu Val Asp Ile Gly
385   390   395   400

Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser Asp Ser Tyr Phe Ser
            405   410   415

Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala Ile Gln Lys Ile Arg
            420   425   430

Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile Phe Cys Ser Arg Glu
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Lys Val Ser His Leu Gln Lys Gly Lys Ala Pro Ala Val Phe Val Lys
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Cys His Asp Lys Ser Leu Asn Lys Lys Ser Gly
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Arg Thr Pro Glu Asp Thr Ala Glu Asp Thr Cys His Leu Ile Pro Gly
            20   25   30

Val Ala Glu Ser Val Ala Thr Cys His Phe Asn His Ser Ser Lys Thr
            35   40   45

Phe Met Val Ile His Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp
    50   55   60

Val Pro Lys Leu Val Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn
    65   70   75   80

Val Ile Val Val Asp Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val
                85   90   95

Ser Ala Gly Tyr Thr Lys Leu Val Gly Gln Asp Val Ala Arg Phe Ile
                100   105   110

Asn Trp Met Glu Glu Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu
        115   120   125

Leu Gly Tyr Ser Leu Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu
    130   135   140

Thr Asn Lys Lys Val Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro
145   150   155   160

Asn Phe Glu Tyr Ala Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala
                165   170   175

Asp Phe Val Asp Val Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg
            180   185   190

Ser Ile Gly Ile Gln Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn
            195   200   205

Gly Gly Thr Phe Gln Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val
    210   215   220

Ile Ala Glu Arg Gly Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser
225   230   235   240

His Glu Arg Ser Ile His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu
            245   250   255

Asn Pro Ser Lys Ala Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys
            260   265   270

Gly Leu Cys Leu Ser Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr
        275   280   285

Glu Ile Asn Lys Val Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys
    290   295   300

Thr Arg Ser Gln Met Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile
305   310   315   320

His Phe Ser Gly Thr Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu
            325   330   335

Ile Ser Leu Tyr Gly Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr
            340   345   350

Leu Pro Glu Val Ser Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr
        355   360   365

Glu Val Asp Ile Gly Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser
    370   375   380

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Asp Ser Tyr Phe Ser Trp Ser Àsp Trp Trp Ser Ser Pro Gly Phe Ala
385             390             395                 400

Ile Gln Lys Ile Arg Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile
                405             410             415

Phe Cys Ser Arg Glu Lys Val Ser His Leu Gln Lys Gly Lys Ala Pro
            420             425             430

Ala Val Phe Val Lys Cys His Asp Lys Ser Leu Asn Lys Lys Ser Gly
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